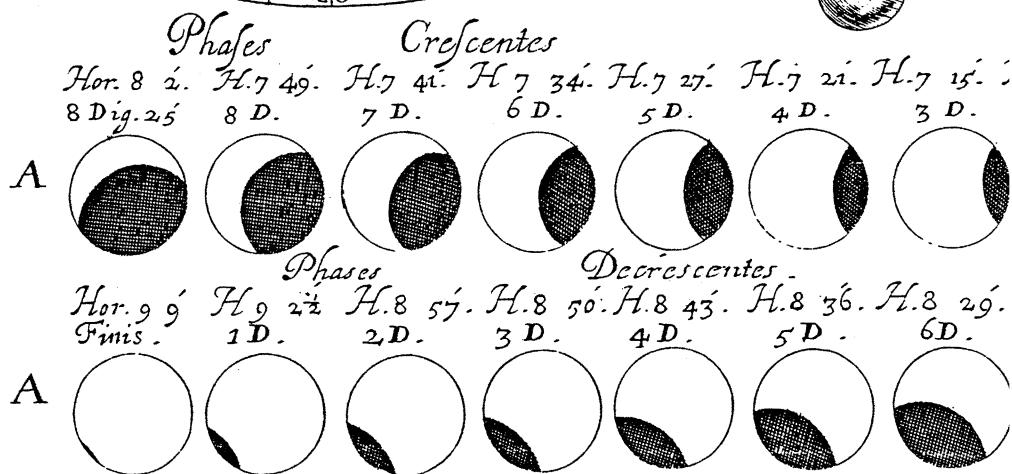
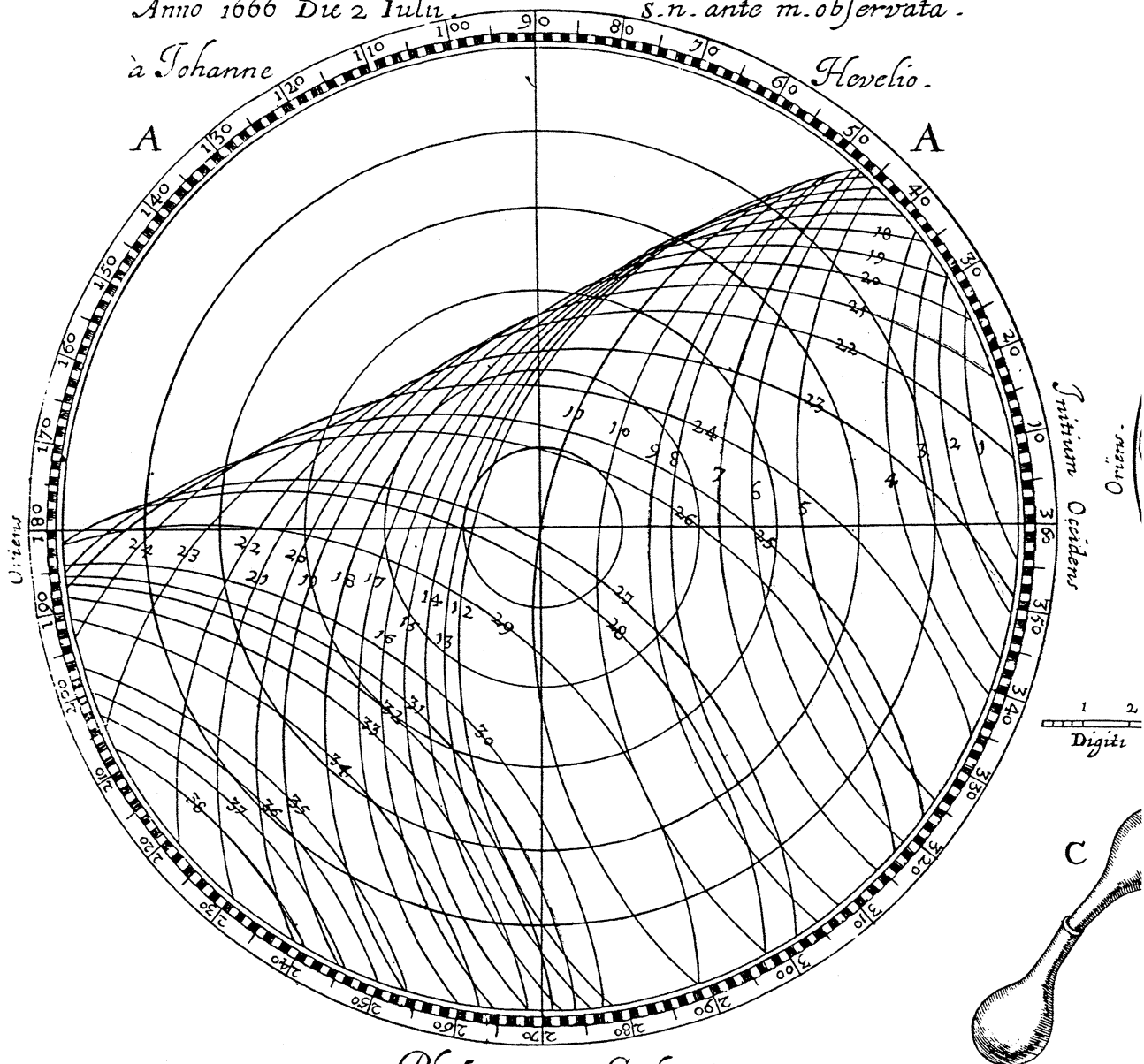
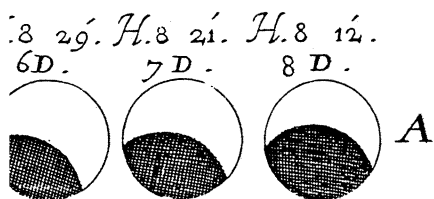
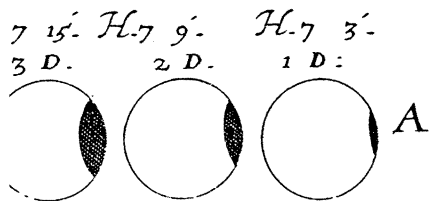
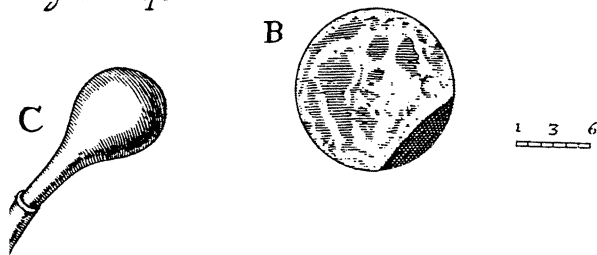
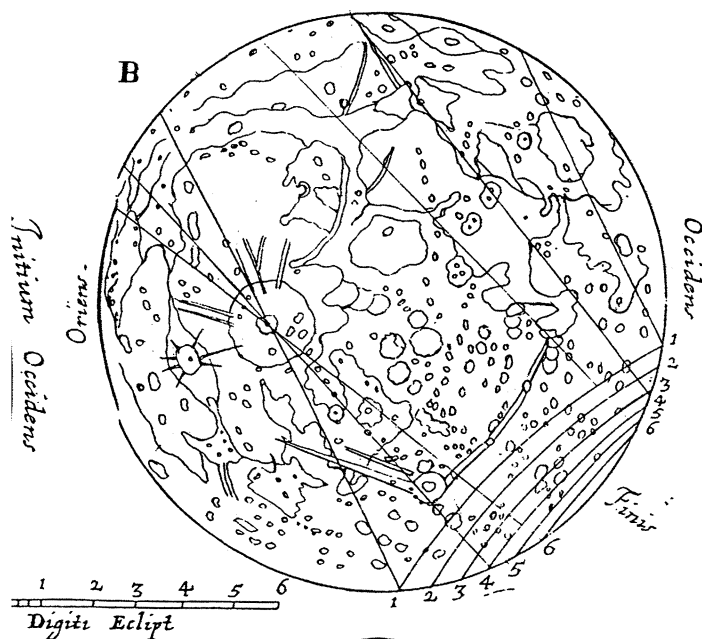


Eclipsis Solaris GEDANI.  
 Anno 1666 Die 2 Julii. s.n. ante m. observata.  
 à Johanne Hevelio.



*Eclipsis Luna observata*  
 GEDANI,  
 Anno 1666, Die 8 16 Iunii. St. n.  
 à Johanne Hevelio.



# PHILOSOPHICAL TRANSACTIONS.

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Munday, January 21. 1666.

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## The Contents.

*An Account, formerly promised, of Monsieur Hevelius's Calculation of the late Solar Eclipse's Quantity, Duration, &c. The Figure of the Star in the Constellation of Cygnus, together with the New Star in it, discovered some years ago, and very lately seen again by the same Mr. Hevelius. An Extract of a Letter, written by Mr. Auzout, concerning a way of his, for taking the Diameters of the Planets, and for knowing the Parallax of the Moon: Giving also a Reason, why in the Solar Eclipse above-mentioned, the Diameter of the Moon did increase about the end. A Relation of the loss of the Way to prepare the Bononian Stone for shining. A Description of a Swedish Stone, affording Sulphur, Vitriol, Allum, and Minium. A Relation of the Raining of Ashes. An Extract of a Letter from Rome, rectifying the Relation of Salamanders living in Fire. An Account of several Engagements for Observing of Tydes. Some Suggestions for Remedies against Cold. A Relation of an uncommon Accident in two Aged Persons. An Account of Two Books, I. ISMAELIS BULLIALDI ad Astronomos Monita duo: Primum, de Stella Nova, in Collo Ceti ante aliquot annos visa. Alterum, de Nebulosa Stella in Andromeda Cinguli parte Borea, ante biennium itum vĩa. II. ENTRETIENS sur les vies & sur les Ouvrages des plus excellens Peintres, anciens & modernes, par M. FELIBIEN.*

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Monsieur Hevelius's Calculation of the late Solar  
Eclipse's Quantity, Duration, &c.

**T**His Calculus was not long since communicated by Monsieur Hevelius in a Letter to the Publisher, as follows,

C c c

Eclipses

*Eclipsis Solaris.**Observata An. 1666. D. 2. Julii, St. N. Mane, à Johanne Hevelio.*

Ordo Pha- sium	Quantitas Phasium.	Temp. altin sec. horol ambulat.	Temp. ex Sciother.	Altitude ☉	Tempus, correct.	<i>Animadvertenda.</i>
		H. ' "	H. ' "	o. ' "	H. ' "	
		5.51.11	5.51. 0	17.45	5.53.12	Quod Sciatericum cum cor- recto tempore non omnino convenit, non-nisi Lineæ Me- ridianæ imputandum.
		5.57. 5	5.57. 0	18.37	5.59.28	
		6. 0. 0	6. 0. 0	18.55	6. 1.28	
	Initium.	6.55.30			6.57.30	Initium circa 79 gr: à puncto Zenith occasum versus conti- git.
1	0 $\frac{3}{4}$ dig.	6.57.30			5.59.30	
2	0 $\frac{3}{4}$	7 0.23	7. 0. 0		7. 2.23	
3	1 $\frac{1}{4}$	7. 2.30	7. 2. 0		7. 4.30	
4	1 $\frac{1}{4}$ dig.	7. 4.50	7. 5 ferè.		7. 6.50	
5	1 $\frac{3}{4}$ ferè.	7.10.57	7.10		7.12.57	
6	3 $\frac{3}{4}$	7.14.59	7.15		7.16.59	
7	3 $\frac{3}{4}$	7.17.50	7.18 ferè.		7.19.50	
8	4 $\frac{3}{4}$ dig.	7.21.35	7.21		7.23.35	
9	4 $\frac{3}{4}$	7.23.43	7.23 ferè.		7.25.43	
10	5 $\frac{1}{4}$	7.27.53	7.28		7.29.53	Hujusque Semi Diameter Lunæ equalis extitit Solari.
11	6	7.31.50	7.32		7.33.50	
12	6 $\frac{3}{4}$	7.36.55	7.37		7.38.55	
13	6 $\frac{7}{8}$ paul. plus.	7.38. 5	7.38		7.40. 0	
14	7 $\frac{1}{8}$	7.39.45	7.39		7.41.45	
15	7 $\frac{1}{4}$ paul. plus.	7.42.30	7.42		7.44.30	
16	7 $\frac{1}{2}$	7.44. 6	7.44		7.46 6	
17	7 $\frac{3}{4}$	7.46. 0	7.46		7.48. 0	
18	8 ferè.	7.48.25	7.48 ferè.		7.50.25	
19	8 $\frac{1}{2}$	7.51.15	7.51		7.53.15	
20	8 $\frac{1}{4}$ ; a-l. plus.	7.53.37	7.52		7.55.37	
21	8 $\frac{3}{4}$	7.55.45	7.56 ferè.		7.57.45	
22	8 $\frac{3}{4}$ paul. in	7.59. 5	7.59		8. 1. 5	Maxima obscuritio exstitit ligit. 8. 25' hora 8. 2'.
23	8 $\frac{1}{2}$	8. 6.30	8. 6		8. 8.30	

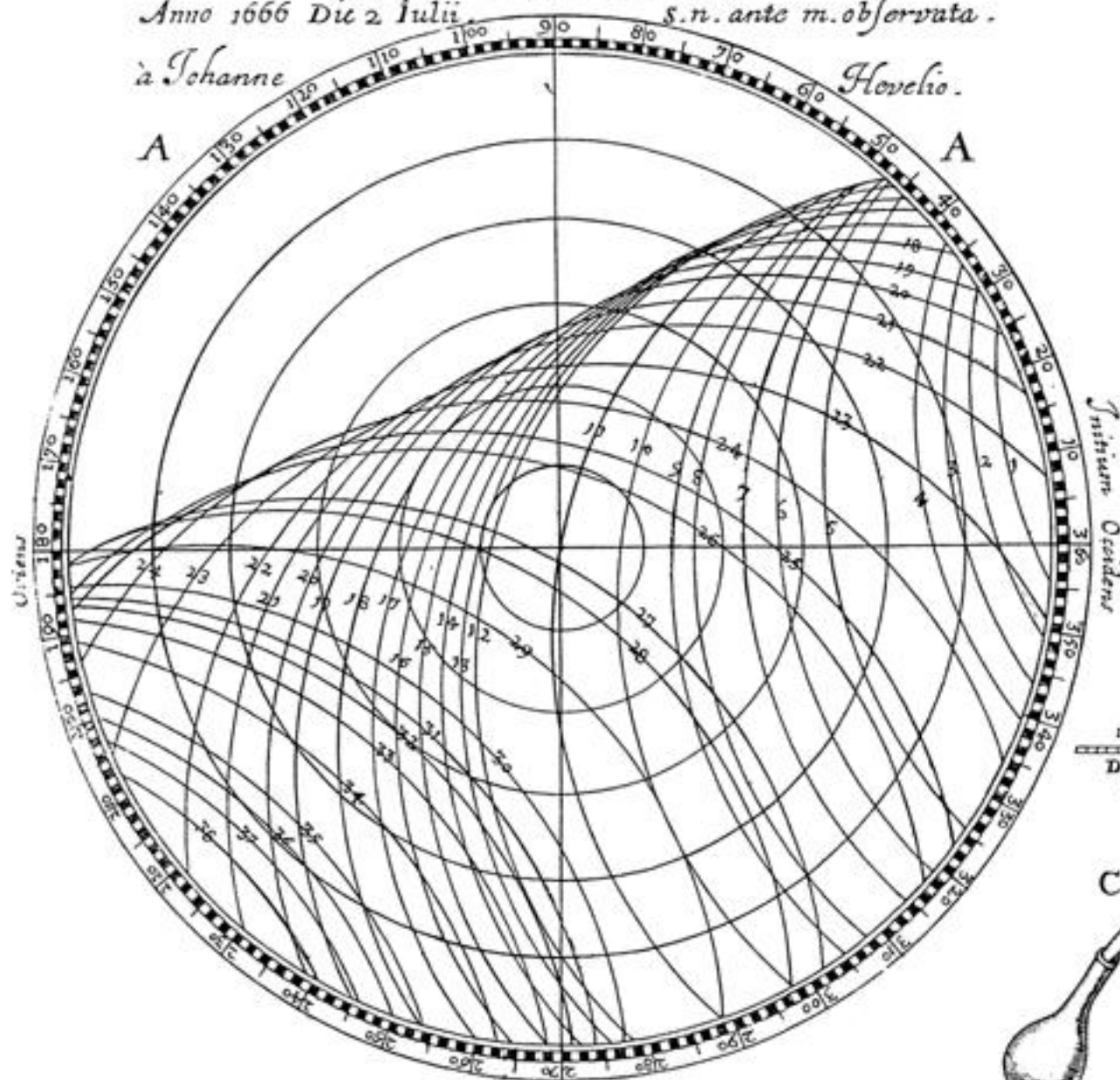
Ordo

(371)

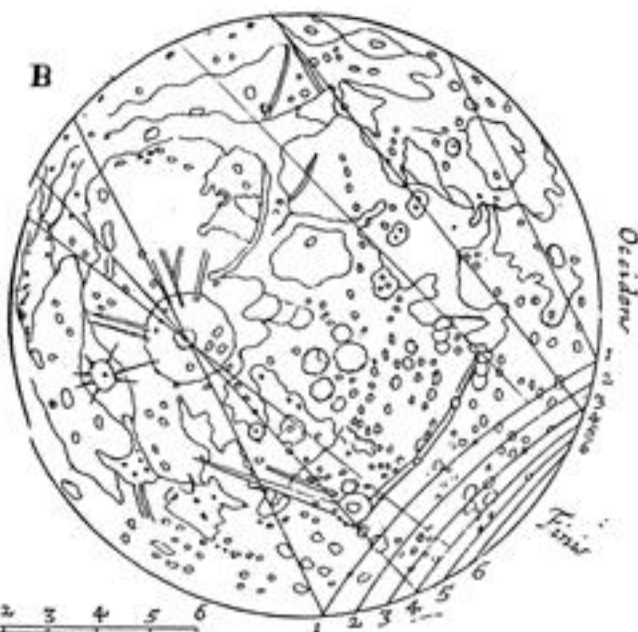
Orde Pha- sua	Quantitas Phatum.	Temp. as- tim. sec. horol. attulat.	Temp. ex sciother.	Altitud. ☉	Tempus corrct.	<i>Animadvertenda.</i>
24	7 $\frac{3}{4}$	H. , " 8.11.25	H. , " 8.12	0.	H. , " 8.13.25	Hic Semidiameter Lune ad 8 <sup>a</sup> vel 9 <sup>a</sup> major apparuit. * * See Numb. 19. of the Philo- sophical Transactions, p. 347.
25	7 $\frac{1}{4}$ fere.	8.17.30	8.18		8.19.30	
26	7 fere.	8.19.41	8.19		8.21.41	
27	5 $\frac{7}{8}$	8.28. 8	8.28		8.30. 8	
28	5 $\frac{1}{2}$ fere.	8 30 14	8.30		8.32.14	
29	4 $\frac{3}{4}$	8 36 25	8.36		8.38.25	
30	3 $\frac{5}{8}$	8 43 19	8.43		8.45.19	
31	3 $\frac{1}{4}$	8 46 12	8.46 fere.		8.48.12	
32	3	8.47.32	8.47		8.29.32	
33	2 $\frac{3}{4}$	8.50.57	8.50		8 .2.57	
34	2 $\frac{1}{2}$ fere.	8.54.15	8.54		8.56.15	
35	1 $\frac{3}{8}$	8.58.24	8.58		9. 0.24	
36	1 $\frac{1}{4}$	8.59.35	8.59		9. 1.35	
37	0 $\frac{5}{8}$	9. 1.38	9. 1		9. 3.38	
38	0 $\frac{1}{2}$	9. 3.20	9. 3		9. 5.20	
39	Finis.	9. 6.53	9. 6	Altir. ☉	9. 8.53	
		9.23. 6		47.33	9.25.28	Punctum finis distat à vec- ticali ad Ortum 143 gr.
		9.24.16		47.42	9.26.45	
		9.28.29		48.10	9.30.42	
		9.30.36		48.28	9.33.12	

This Observation is by the same *Astronomer*, represented also by the *Figures AAAAAA*; as that of the *Horizontal Eclipse* of the *Moon*, is, by the *Figures BB*.

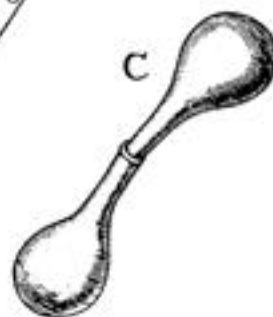
*Eclipsis Solaris GEDANI.*  
*Anno 1666 Die 2 Julii.* *s.n. ante m. observata.*  
*à Johanne Hevelio.*



*Eclipsis Luna observata*  
*GEDANI.*  
*Anno 1666, Die 4 16 Junii, St. n.*  
*à Johanne Hevelio.*



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*Digitis Eclipt*



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